

Product datasheet for KN208947RB

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

beta Catenin (CTNNB1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: beta Catenin

Locus ID: 1499

Components: KN208947G1, beta Catenin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN208947G2, beta Catenin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN208947RBD**, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 001098209, NM 001098210, NM 001904, NM 001330729

UniProt ID: P35222

Synonyms: armadillo; CTNNB; MRD19

Summary: The protein encoded by this gene is part of a complex of proteins that constitute adherens

junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon.

Mutations in this gene are a cause of colorectal cancer (CRC), pilomatrixoma (PTR),

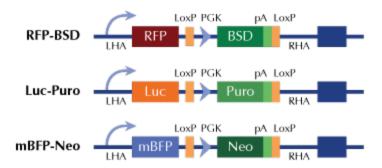
medulloblastoma (MDB), and ovarian cancer. Alternative splicing results in multiple transcript

variants. [provided by RefSeq, Aug 2016]



Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter